(b) if so, what are the details thereof; and

(c) the follow up action taken so far or proposed to be taken in this regard?

THE MINISTER OF HUMAN RESOURCE DEVELOPMENT (SHRI P. SHIV SHANKER): (a) and (b) The recommendations made by Rashtriya Ved-Vidya Pratishthan after the Round Table Discussions on Vedic Mathematics held in Delhi from 22nd February to 24th February, 1989 are given in the enclosed Statement. (*See* below).

(c) A committee has been set up to study the implications of the recommendations to facilitate follow-up action.

Statement

Recommendations made by Rashtriya Veda Vidya Pratishthan

1. The National Council of Educational Research and Training may be requested to include some of the Sutras and their applications as enrichment materials, in consultation with a panel of mathematicians constituted for the purpose by the Rashtriya Veda Pratishthan.

2. Agencies inclined to conduct training programmes in Vedic Mathematics should be encouraged and supported.

3. The Rashtriya Veda Vidya Prathishthan should commission the writing of the following:—

(a) A book giving for each Sutra, its statement, its proof, its motivation, illustrative examples, explaining limitations and possibilities for generalisation.

(b) A book explaining how students can discover the Sutras by recognising patterns with the help of illustrations.

(c) A book explaining Sutras for education teachers and other user like managers, bankers, engineers etc.

(d) A book comparing the Sutras with other methods of calculations and in particular with those of Trachenburg Speed System of Basic Mathematics.

The above books should be vetted by a panel of mathematicians before permitting their publication.

4. Projects may be sanctioned to competent mathematicians and Computer scientists for—

(a) development of ideas in the book 'Vedic Mathematics' by Jagat Guru Shankaracharya;

(b) investigating the possibilities of incorporating the relevant ideas in appropriate computer software programmes;

(c) expounding and developing Mathematical Foundations behind the Sutras.

Number of colleges imparting teachers training through correspondence

2877. SHRI KAPIL VERMA: Will the Minister of HUMAN RESOURCE DEVELOPMENT be pleased to state:

(a) whether it is a fact that about one lakh people enter into teacher's profession every year holding a correspondence course degree from institutions all over the country;

(b) if so, the number of colleges imparting teacher's training through correspondence courses in the country;

(c) whether it is also a fact that there are not many vacancies as compared to the trained teachers every year; and

(d) whether Government propose to take help of the World Bank to

diversify and modernise facilities in the technical education at the polytechnic level?

THE MINISTER OF HUMAN RESOURCE DEVELOPMENT (SHRI P. SHIV SHANKER): (a) and (b) According to available information, during 1988-89, 14 universities in the country were offering correspondence courses in teacher education and over 67,000 candidates were enrolled in such courses.

(c) The relative position regarding supply and demand of trained teachers varies considerably from State to State. The position of vacancies can also vary considerably from year to year.

(d) Government is exploring the possibility of securing World Bank assistance to strengthen and modernise the polytechnic education system in the country.

Profit/Loss of Vayudoot

2873. SHRI VIRENDRA VERMA:
SHRI ISH DUTT YADAV:
SHRI MOHINDER SINGH LATHER:

Will the Minister of CIVIL AVIATION AND TOURISM be pleased to state:

(a) what is the profit/loss of Vayudoot during 1986-87, 1987-88 and 1988-89 so far and how it compares with the growth of revenue during these years;

(b) what are the reasons for the losses incurred by Vayudoot and various heads of accounts under which the losses have been accounted for; and

(c) what measures have been taken by Government in this regard?

THE MINISTER OF STATE OF THE MINISTRY OF CIVIL AVIATION AND TOURISM (SHRI SHIVRAJ PATIL): (a) Details of the revenue earned, the losses incurred and loss *vis-a-vis* revenue earned by Vayudoot during 1986-87, 1987-88 and 1988-89 were as follows:

Year	Revenue earned (Rs. in Crores)	Net loss (Rs. in Crores)	Net loss Revenue earned (%)
1986-87	14.23	8.23	57.84
1987-88	17.85	7.62	42.69
1988-89	27.17	8.47	31.17

The above data are subject to change at the time of finalisation of Annual Accounts of the company for adoption at the Annual General Meetings.

(b) The losses have mainly been due to:

(i) induction of new generation Dornier aircraft which resulted in increase in aircraft costs on account of depreciation, interest and other charges;

(ii) increased interest payments on account of fluctuations in exchange rates;

(iii) high expenditure on consumables for repairs/maintenance and premature engine failure; and

(iv) operations on short haul routes which are uneconomical.

Vayudoot had incurred losses on the airline operations, courier services launched in September, 1987